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Real-Time PCR System Accurate 96

Product Number: ACQ96

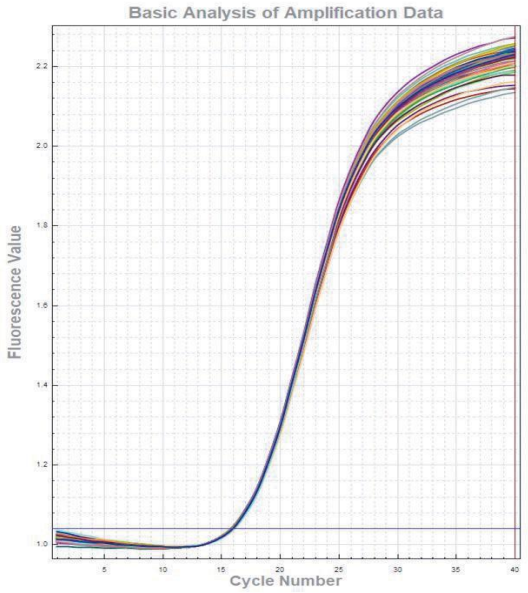
Description

As a necessary choice for quantitative analysis of molecular biology, real-time PCR system has been widely used in various fields such as scientific research, clinical detection and diagnosis, quality and safety testing, and forensic applications.

Features

1. Up to 6 fluorescence detection channels allowing multiplex PCR.
2. Effectively reduce multi-color crosstalk and edge effect, no ROX correction required to reduce sample and reagent use.
3. Innovative scanning method and time-resolved signal separation technology to improve detection sensitivity.
4. Unique edge temperature compensation technology to minimize "edge effect".
5. User-friendly software.
6. Innovative technology with long-lastig LED light provides reliability results.

Channel 1	Channel 2	Channel 3	Channel 4	Channel 5	Channel 6
FAM/SYBR	CY5/Quasar 670	VIC/HEX/TET/JO	FAM/SYBR	ROX/Texas Red	NED/Cy3/TAMRA
480±10/518±10	640±20/692±40	E 532±10/564±20	480±10/518±10	571±20/610±20	543±20/584±20



Technical Parameters

1. Temperature control system

Sample capacity	0.1mL PCR tubes×96, 8×12 PCR plate or 96 well plate ×1
Reaction volume	10-50μL
Thermal cycle technology	Peltier
Max. Heating/Cooling rate	6.0℃/s
Heating temperature range	4-100℃
Temperature accuracy	±0.2℃
Temperature uniformity	±0.2℃ @60℃ , ±0.2℃ @95℃
Temperature gradient setting range	30–100℃
Temperature gradient difference setting range	1 – 36℃

2. Detection system

Excitation light source	5/6 monochrome high efficiency LEDs
Detection device	MPPC
Detection mode	Time-resolved signal separating technology
Excitation/detection wavelength range	455-650nm/510-715nm
Fluorescent channels	4/6 channels
Supported dye	FAM/SYBR Green,VIC/HEX ROX,Cy5,Cy3(only for x6)
Sensitivity	Single copy gene
Resolution	1.33 folds copy number difference can be distinguished in single-plex qPCR
Dynamic range	10 orders of magnitude copies